

What is claimed is:

1. A semiconductor laser diode module comprising:

a laser diode which emits laser lights;

a first optical fiber which is arranged on one end side of said laser diode in a state where it is optically coupled with said laser diode;

a second optical fiber which is arranged on the other end side of said laser diode in a state where it is optically coupled with said laser diode;

a base on which said laser diode and said first optical fiber are arranged and fixed;

a thermo-electric-module on which said base is mounted;
and

a diffraction Bragg grating which is formed within said first optical fiber so as to feed the light of a set wavelength back to said laser diode;

wherein said laser diode and said first optical fiber are located relative to said thermo-electric-module so that a segment which connects a laser light emitting end face of said laser diode at one end thereof and a laser light receiving end of said first optical fiber may lie on an end side of said thermo-electric-module with respect to a central part thereof in an direction of an optic axis of said laser diode.

2. A semiconductor laser diode module according to Claim 1, wherein:

said first optical fiber is fixed to said base by fixation means;

said fixation means is disposed in the number of at least one in a lengthwise direction of said first optical fiber; and

a lower surface of said base as extends from that part of said base at which said fixation means located nearest to said laser diode is disposed, to that end of said base which is remoter from said second optical fiber, is held in a state out of contact with said thermo-electric-module.

3. A semiconductor laser diode module according to Claim 1, wherein:

at least one lens portion is disposed between said second optical fiber and that end face of said laser diode which opposes to said second optical fiber;

at least, the first lens portion located nearest to said laser diode is mounted on said base; and

a lower surface of said base as extends from that part of said base at which said first lens portion is disposed, to that end of said base which is remoter from said first optical fiber, is held in a state out of contact with said thermo-electric-module.

4. A Raman amplifier comprising:

a pumping light source which is formed by employing said semiconductor laser diode module according to Claim 1.